

M.V. "MONTROSE" CAPACITY PLAN

DIMENSIONS:-
LENGTH O.A. 440'-0"
LENGTH BETWEEN PERPS (OPEN) 420'-0"
BREADTH EXTREME 58'-7 1/2"
DEPTH MOULDED TO UPPER DECK 35'-9"
DEPTH MOULDED TO SECOND DECK 26'-9"

SCALE: 1/16" = 1 FOOT

REGISTERED DIMENSIONS 426'90" x 58'65" x 23'10"

Table with 4 columns: TONNAGES, OPEN CONDITION, CLOSED CONDITION, and sub-columns for BRITISH, SUEZ, PANAMA.

OFFICIAL NUMBER 302620
SIGNAL LETTERS GHLF
PORT OF REGISTRY LONDON

Table with 4 columns: MARKING, OPEN CONDITION, CLOSED CONDITION, and sub-columns for FREEBOARD, DRAUGHT, DEADWEIGHT, and DEADWEIGHT.

DEADWEIGHT INCLUDES: CARGO, FUEL OIL, DIESEL OIL, FRESH WATER, WATER BALLAST, ENGINEERS TANKS, FRESH & SALT WATER SERVICES, STORES, CREW & EFFECTS.

DEADWEIGHT SCALE

Table with 4 columns: DISPLACEMENT, DRAUGHT, DEPTH, and DENSITY.

Table with 4 columns: LIGHTSHIP, DISPLACEMENT, DRAUGHT, and DENSITY.

BARTRAM & SONS LTD.
SOUTH DOCK, SUNDERLAND
SHIP NO. 388
BUILT MARCH 1901



BARTRAM & SONS, LTD.
SOUTH DOCK, SUNDERLAND.
Drawn To: Messrs LLOYDS,
FANCETT ST.,
SUNDERLAND.

PROFILE

DECK HOUSES

UPPER DECK

SECOND DECK

HOLDS & TANKS

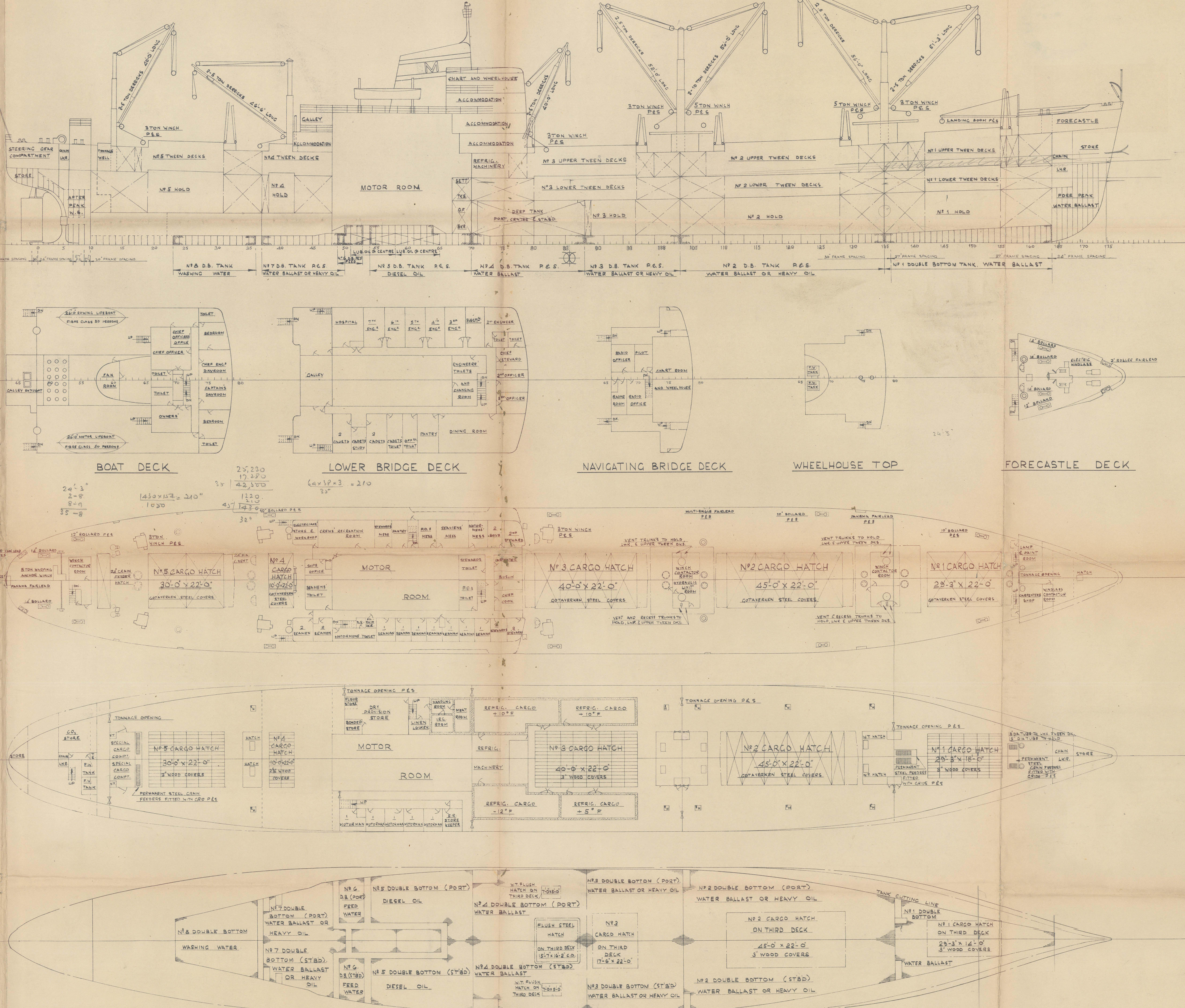


Table with 5 columns: COMPARTMENT, FRAMES, GRAIN, CUBIC FEET, and L.C.G. FT.

Table with 5 columns: COMPARTMENT, FRAMES, NET CAPACITY, CUBIC FEET, and L.C.G. FT.

MEASUREMENT OF CAPACITIES.
GRAIN CAPACITIES ARE MEASURED TO THE MOULDED LINES OF SHELL, DECKS AND TANK TOP, WITH DEDUCTIONS FOR STRUCTURE AND ALL OBSTRUCTIONS.
BALE CAPACITIES ARE MEASURED TO INSIDE OF SPARRING, UNDERSIDE OF BEAMS AND INSIDE OF TROUGH BULKHEADS WITH DEDUCTIONS FOR ALL OBSTRUCTIONS.
INSULATED CAPACITIES ARE MEASURED FROM INSIDE OF BATTENS AND FROM TOP OF DECK CRATINGS TO UNDERSIDE OF INSULATION.
CARGO CAPACITIES INCLUDE CAPACITY OF HATCHWAYS.
ALSO INCLUDED IN TANK CAPACITIES.

Table with 5 columns: COMPARTMENT, FRAMES, CUBIC FEET, TONS, and L.C.G. FT.

MACHINERY PARTICULARS

MAIN ENGINE:- SINGLE SCREW, FIVE CYLINDER 'V.E.M.' 'GUSTAVSEN' SINGLE ACTING TWO STROKE, REVERSIBLE, DIRECT INJECTION, TURBO CHARGED MARINE OIL ENGINE OF GOODHEAD CONSTRUCTION.
CYLINDER DIAMETER 760 MM., PISTON STROKE 1600 MM.
BOILERS:- ONE 'COCHRAN' VERTICAL OIL FIRED BOILER 6'-6" DIAMETER X 16'-3" HIGH, DESIGNED FOR A WORKING PRESSURE OF 100 P.S.I.
ONE SPANNER VERTICAL EXHAUST GAS BOILER SILENCER 6'-0" DIAMETER X 11'-0" HIGH, DESIGNED FOR A WORKING PRESSURE OF 100 P.S.I.
AUXILIARIES:- ELECTRICALLY DRIVEN BY DIRECT CURRENT AT 220 VOLTS, WITH THE EXCEPTION OF THE FOLLOWING UNIT:- ONE EMERGENCY STARTING AIR COMPRESSOR.
GENERATORS:- THREE ELECTRIC GENERATING SETS EACH CONSISTING OF ONE 'LISTER' BLACKSTONE TYPE ENGINES, SIX CYLINDER, FOUR STROKE CYCLE, DRY SWAMP OIL ENGINE, DIRECT COUPLED TO AN OPEN TYPE DRIP PROOF COMPOUND WOUND MARINE GENERATOR OF 'THRIGE' MANUFACTURE, EACH SET DESIGNED FOR A CONTINUOUS OUTPUT OF 275 KW AT 220 VOLTS D.C. WHEN RUNNING AT 600 R.P.M.

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DIMENSIONS:-
LENGTH O.A.
LENGTH BETWEEN PERPS
BREADTH EXTREME
DEPTH MOULDED TO UPPER
DEPTH MOULDED TO SECOND

SCALE: 1/16" = 1 FOOT

REGISTERED DIMENSIONS 42690 X 58-65 X 23-10

TONNAGES	OPEN CONDITION	CLOSED CONDITION
BRITISH SUEZ PANAMA	BRITISH SUEZ PANAMA	BRITISH SUEZ PANAMA
GROSS	2993-11	
NETT	2846-06	
UNDERDECK	3972-32	

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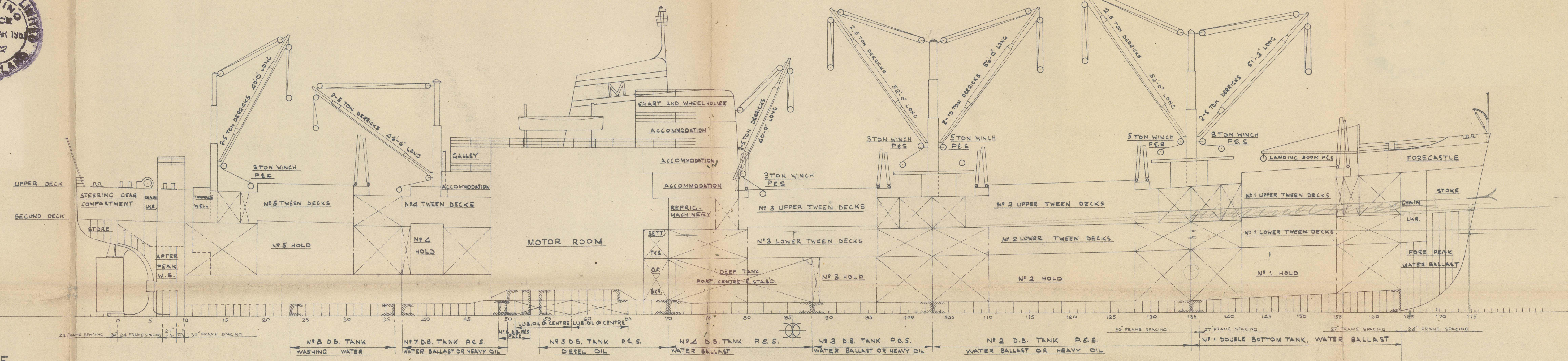
MARKING	OPEN CONDITION	CLOSED CONDITION
TROPICAL FRESH WATER	1-5 1/2"	2-5 1/2"
FRESH WATER	1-1 1/2"	2-1 1/2"
TROPICAL	2-0"	2-4 1/2"
SUMMER	2-0"	2-4 1/2"
WINTER	3-0"	3-10 1/2"

DEADWEIGHT INCLUDES CARGO, FUEL OIL,
DIESEL OIL, FRESH WATER, WATER BALLAST,
ENGINEERS' TANKS, FRESH & SALT WATER
SERVICES, STORES, CREW & EFFECTS.

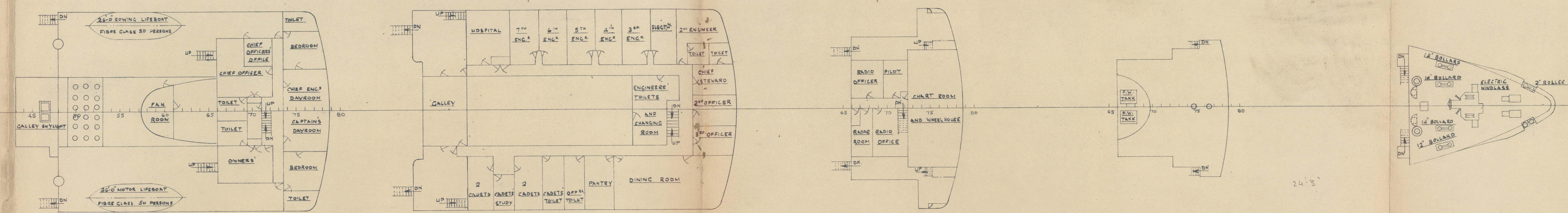
DEADWEIGHT SCALE

DISPLACEMENT TONS	EXTENSIVE DRAUGHT FEET	DEADWEIGHT TONS	TONS PER INCH IMMERSION	MOMENT TO CHANGE TON INCH	TRANSVERSE METACENTRE FEET
14,000	29	0,000	48	1200	25
15,000	27	9000	47	1100	24
16,000	26	8000	46	1000	23
17,000	25	7000	45	900	22
18,000	24	6000	44	800	21
19,000	23	5000	43	700	20
20,000	22	4000	42	600	19
21,000	21	3000	41	500	18
22,000	20	2000	40	400	17
23,000	19	1000	39	300	16
24,000	18	0	38	200	15
25,000	17		37	100	14
26,000	16		36	0	13
27,000	15		35		12
28,000	14		34		11
29,000	13		33		10
30,000	12		32		9
31,000	11		31		8
32,000	10		30		7
33,000	9		29		6
34,000	8		28		5

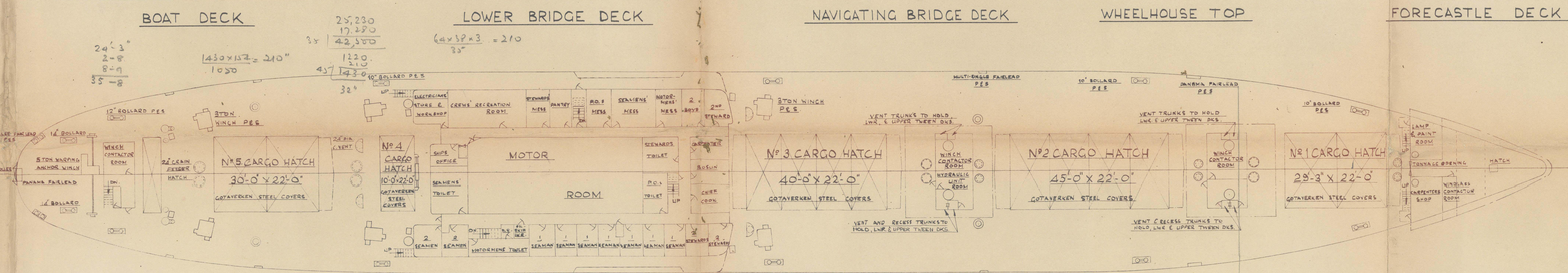
LIGHTSHIP DISPLACEMENT 4002 TONS
DRAUGHT AFT 12-0 1/4"
DRAUGHT FORD 5-0 1/2"
DRAUGHT MEAN 9-0 1/8"
TRIM BY STERN 108"
V.C.G. ABOVE BASE 29-20 FT.



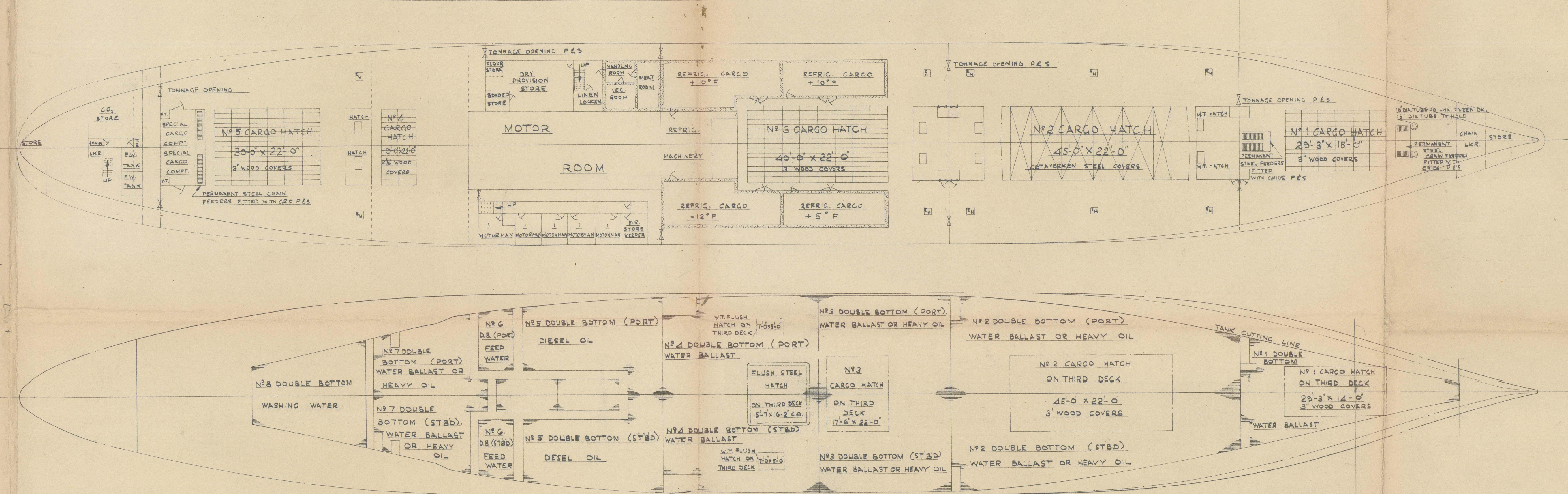
PROFILE



UPPER DECK



SECOND DECK



HOLDS & TANKS

COMPARTMENT	FRAMES	GRAIN CUBIC FEET	BALE CUBIC FEET	V.C.G. FT.	L.C.G. FT. FROM X
W1 HOLD	15-16	25130	22130	11-23	127-61 F
W2	103-135	63920	59560	11-23	81-81 F
W3	86-103	31510	29550	11-02	25-03 F
W3 HOLD DEEP TANK (P)	71-88	8880	7950	11-32	15-00 R
W4 HOLD	71-88	17010	16210	10-31	14-31 A
W5	(2)	71-88	6860	7-32	15-00 A
W6	87-48	30870	28720	17-31	107-64 A
W7	10-87	47800	42550	19-31	127-31 A
TOTAL HOLDS AND DEEP TANKS		28110	214710	11-8	2-87 A
W1 LOWER TWEEN DECK	135-164	17680	15280	12-31	149-51 F
W2	108-135	36480	33250	13-30	81-13 F
W3	70-108	20800	19550	12-70	2-18 F
TOTAL LOWER TWEEN DECK		74960	68080	12-41	75-35 F
W1 UPPER TWEEN DECK	135-164	28400	26040	16-18	151-87 F
W2	103-135	50400	47760	13-33	83-47 F
W3	70-103	29460	27590	12-38	11-27 F
W4	13-50	41180	42260	16-10	131-46 A
W5	11-18	2140	2020	15-37	184-18 A
SPECIAL CARGO COMPARTMENT (P)	13-17	990	950	16-39	176-13 A
TOTAL UPPER TWEEN DECK		167660	147570	14-48	13-50 F
TOTAL HOLD, DEEP TANK & TWEEN		448740	477550	22-47	13-63 F

COMPARTMENT	FRAMES	NET CAPACITY CUBIC FEET	V.C.G. FT.	L.C.G. FT. FROM X
REFRIG. CARGO AFT (PORT)	70-84	2555	31-59	21-83 A
REFRIG. CARGO AFT (STARBOARD)	70-84	2555	31-59	21-83 A
REFRIG. CARGO FWD (PORT)	84-96	1765	31-59	18-14 F
REFRIG. CARGO FWD (STARBOARD)	84-96	1765	31-59	18-14 F
TOTAL REFRIG. CARGO		6640	31-59	7-61 A

MEASUREMENT OF CAPACITIES.
GRAIN CAPACITIES ARE MEASURED TO THE MOULDED LINES OF SHELL, DECKS AND TANK TOP, WITH DEDUCTIONS FOR STRUCTURE AND ALL OBSTRUCTIONS.
BALE CAPACITIES ARE MEASURED TO INSIDE OF SPARRING, UNDERSIDE OF BEAMS AND INSIDE OF TROUGH BULKHEADS WITH DEDUCTIONS FOR ALL OBSTRUCTIONS.
INSULATED CAPACITIES ARE MEASURED FROM INSIDE OF BATTENS AND FROM TOP OF DECK GRATINGS TO UNDERSIDE OF HATCHWAYS.
CARGO CAPACITIES INCLUDE CAPACITY OF HATCHWAYS.
ALSO INCLUDED IN TANK CAPACITIES.

COMPARTMENT	FRAMES	CUBIC FEET	TONS	V.C.G. FT.	L.C.G. FT. FROM X
W1 DOUBLE BOTTOM	135-164	610	186	12-31	8-04
W2	103-135	2890	168	14-7	197-78 F
W3	71-88	1080	147	11-32	78-28 F
W4	86-103	3460	98	8-6	131-24 F
W5	86-103	3460	98	8-6	131-24 F
W6	70-88	4110	117	11-7	18-29 A
W7	10-87	4080	108	12-31	2-94
W8	103-135	2890	168	14-7	2-94
W9	84-96	1765	116	16-39	2-16
W10	49-51	780	21	15-37	6-43 A
W11	37-50	1870	53	16-39	1-50
W12	37-50	1870	53	16-39	1-50
W13	37-50	1870	53	16-39	1-50
W14	37-50	1870	53	16-39	1-50
W15	37-50	1870	53	16-39	1-50
W16	37-50	1870	53	16-39	1-50
W17	37-50	1870	53	16-39	1-50
W18	37-50	1870	53	16-39	1-50
W19	37-50	1870	53	16-39	1-50
W20	37-50	1870	53	16-39	1-50
W21	37-50	1870	53	16-39	1-50
W22	37-50	1870	53	16-39	1-50
W23	37-50	1870	53	16-39	1-50
W24	37-50	1870	53	16-39	1-50
W25	37-50	1870	53	16-39	1-50
W26	37-50	1870	53	16-39	1-50
W27	37-50	1870	53	16-39	1-50
W28	37-50	1870	53	16-39	1-50
W29	37-50	1870	53	16-39	1-50
W30	37-50	1870	53	16-39	1-50
W31	37-50	1870	53	16-39	1-50
W32	37-50	1870	53	16-39	1-50
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W34	37-50	1870	53	16-39	1-50
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W38	37-50	1870	53	16-39	1-50
W39	37-50	1870	53	16-39	1-50
W40	37-50	1870	53	16-39	1-50
W41	37-50	1870	53	16-39	1-50
W42	37-50	1870	53	16-39	1-50
W43	37-50	1870	53	16-39	1-50
W44	37-50	1870	53	16-39	1-50
W45	37-50	1870	53	16-39	1-50
W46	37-50	1870	53	16-39	1-50
W47	37-50	1870	53	16-39	1-50
W48	37-50	1870	53	16-39	1-50
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W60	37-50	1870	53	16-39	1-50
W61	37-50	1870	53	16-39	1-50
W62	37-50	1870	53	16-39	1-50
W63	37-50	1870	53	16-39	1-50
W64	37-50	1870	53	16-39	1-50
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W67	37-50	1870	53	16-39	1-50
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W70	37-50	1870	53	16-39	1-50
W71	37-50	1870	53	16-39	1-50
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W79	37-50	1870	53	16-39	1-50
W80	37-50	1870	53	16-39	1-50
W81	37-50	1870	53	16-39	1-50
W82	37-50	1870	53	16-39	1-50
W83	37-50	1870	53	16-39	1-50
W84	37-50	1870	53	16-39	1-50
W85	37-50	1870	53	16-39	1-50
W86	37-50	1870	53	16-39	1-50
W87	37-50	1870	53	16-39	1-50
W88	37-50	1870	53	16-39	1-50
W89	37-50	1870	53	16-39	1-50
W90	37-50	1870	53	16-39	1-50
W91	37-50	1870	53	16-39	1-50
W92	37-50	1870	53	16-39	1-50
W93	37-50	1870	53	16-39	1-50
W94	37-50	1870	53	16-39	1-50
W95	37-50	1870	53	16-39	1-50
W96	37-50	1870	53	16-39	1-50
W97	37-50	1870	53	16-39	1-50
W98	37-50	1870	53	16-39	1-50
W99	37-50	1870	53	16-39	1-50
W100	37-50	1870	53	16-39	1-50

ALSO INCLUDED IN CARGO CAPACITIES.
MACHINERY PARTICULARS
MAIN ENGINE - SINGLE SCREW FIVE CYLINDER 'N.E.M.' COTAVERTEN.
SINGLE ACTING TWO STROKE REVERSIBLE DIRECT INTERMEDIATE TURBO CHARGED MARINE OIL ENGINE OF CROSSHEAD CONSTRUCTION.
CYLINDER DIAMETER 760 M.M. PISTON STROKE 1500 M.M.
BOLLERS - ONE COCHIN VERTICAL OIL FIRED BOILER 6'6" DIAMETER X 16'3" HIGH. DESIGNED FOR A WORKING PRESSURE OF 100 P.S.I.
ONE SPANNED VERTICAL EXHAUST GAS BOILER/SILENCER 6'0" DIAMETER X 10'0" HIGH. DESIGNED FOR A WORKING PRESSURE OF 100 P.S.I.
AUXILIARIES - ELECTRICALLY DRIVEN BY DIRECT CURRENT AT 220 VOLTS WITH THE EXCEPTION OF THE FOLLOWING UNIT - ONE EMERGENCY STARTING AIR COMPRESSOR.
GENERATORS - THREE ELECTRIC GENERATING SETS EACH CONSISTING OF ONE LISTER BLACKSTONE TYPE EV68M SIX CYLINDER FOUR STROKE CYCLE DRY SUMP OIL ENGINE DIRECT COUPLED TO AN OPEN TYPE DRIP PROOF COMPOUND WOUND MARINE GENERATOR OF 'THRIVE' MANUFACTURE. EACH SET DESIGNED FOR A CONTINUOUS OUTPUT OF 275 KW AT 220 VOLTS D.C. WHEN RUNNING AT 600 R.P.M.

BARTRAM & BONS LTD.
SOUTH DOCK SUNDERLAND
SHIP NO 388.
BUILT - MARCH 1951

CONCORDIA LAEO

"MONTROSE"

Capacity Plan.

MONTROSE
SLD RPT. NO 133
SHIP 386



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